

## GREEN RIVER BASIN

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE<sup>1</sup>/4 NW<sup>1</sup>/4 SW<sup>1</sup>/4 sec. 9, T. 1 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above sea level, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft<sup>3</sup>/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 7.0 ft<sup>3</sup>/s, Mar 13, 1940, Mar 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft<sup>3</sup>/s, May 18, gage height, 2.19 ft; minimum discharge, 26 ft<sup>3</sup>/s, Dec 1, Feb 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	53	47	44	44	43	52	58	71	60	52	61
2	48	48	43	42	44	43	58	58	71	60	52	61
3	48	46	43	44	44	43	56	58	71	60	53	62
4	48	45	43	44	43	43	55	57	71	58	53	61
5	48	44	44	45	43	44	55	56	71	58	50	50
6	47	43	44	44	43	44	55	54	70	58	49	49
7	47	43	43	42	45	44	56	54	69	59	49	50
8	47	43	43	41	44	45	56	54	69	58	49	50
9	48	44	43	46	40	46	53	55	68	62	51	49
10	57	44	44	46	44	49	56	57	67	63	50	49
11	66	43	43	44	44	48	53	59	66	62	49	49
12	55	41	45	48	43	46	53	59	66	61	49	48
13	52	40	44	48	43	46	51	63	66	61	50	52
14	50	43	45	44	43	46	52	64	67	60	50	51
15	50	43	45	45	44	45	55	65	65	63	49	49
16	49	41	45	42	43	46	57	72	65	61	48	49
17	49	40	44	41	44	46	57	83	65	58	46	50
18	49	40	47	43	43	47	57	82	65	57	46	49
19	48	44	44	46	43	47	58	74	65	56	46	49
20	49	43	45	44	43	51	59	71	65	55	47	48
21	50	42	45	41	43	54	60	72	64	56	50	48
22	51	45	45	44	44	56	59	69	65	56	48	48
23	50	45	44	43	45	56	58	70	63	54	47	48
24	50	44	44	43	44	56	55	72	62	55	46	48
25	50	42	43	43	44	55	55	72	62	54	45	49
26	50	45	41	41	44	55	58	74	64	56	44	49
27	51	44	45	44	44	54	61	75	64	56	45	48
28	56	44	44	43	44	53	53	75	62	54	44	48
29	52	43	43	42	---	52	53	74	61	53	49	51
30	55	44	44	39	---	51	52	73	60	52	60	49
31	58	---	43	39	---	51	---	72	---	53	60	---
TOTAL	1576	1309	1365	1345	1219	1505	1668	2051	1980	1789	1526	1522
MEAN	50.8	43.6	44.0	43.4	43.5	48.5	55.6	66.2	66.0	57.7	49.2	50.7
MAX	66	53	47	48	45	56	61	83	71	63	60	62
MIN	47	40	41	39	40	43	51	54	60	52	44	48
AC-FT	3130	2600	2710	2670	2420	2990	3310	4070	3930	3550	3030	3020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	57.6	54.7	51.9	48.9	48.0	51.0	50.7	122	248	194	93.1	78.1
MAX	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	1998	1998	1998	1998	1998	1998	1999	1997	1999	1998	1999	1999
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4

(WY) 1990 1990 1991 1991 1988 1988 1995 1992 1992 1991 1991 1991 1993

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	21546	18855	91.6
ANNUAL MEAN	58.9	51.7	212
HIGHEST ANNUAL MEAN			40.1
LOWEST ANNUAL MEAN			1999
HIGHEST DAILY MEAN	81	Aug 4	1310
LOWEST DAILY MEAN	40	Nov 13	Jul 1 1998
ANNUAL SEVEN-DAY MINIMUM	41	Nov 12	Dec 1 1991
ANNUAL RUNOFF (AC-FT)	42740	37400	Dec 30 1987
10 PERCENT EXCEEDS	70	65	66340
50 PERCENT EXCEEDS	62	49	169
90 PERCENT EXCEEDS	44	43	47
			33